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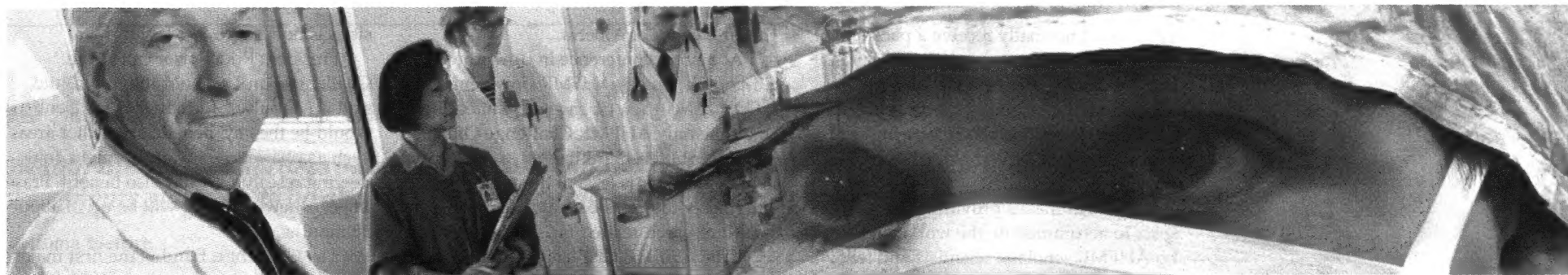
Now that the doctor shortage has reached urban communities—and epic national proportions—what are the governments going to do about it? More medical students is the first step.

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'Ferrari' of all computers

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UNIVERSITY OF ALBERTA

folio

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Province boosts science and engineering research with \$500 million foundation

Researchers laud creation of Alberta Heritage Foundation for Science and Engineering Research

By Dan Rubinstein

Since its establishment in 1980, the Alberta Heritage Foundation for Medical Research (AHFMR) has been supplying Dr. John Vederas with the funding he needs to conduct research projects in his lab. It's been a "tremendous boon," says the bio-organic chemist, one that's allowed him to do work that otherwise would not be possible.

Now, in the wake of the provincial government's Jan. 26 announcement of a new Alberta Heritage Foundation for Science and Engineering Research (AHFSER), a fund that will set aside \$500 million for research over the next five years, Vederas sees a brighter future for science and engineering in the province.

"This type of funding is the absolute core of successful research efforts at universities," he says.

Modeled after the effective AHFMR—which many feel catapulted Alberta on the global stage for medical advances—the AHFSER was created to help attract investment, recruit top researchers from around the world and give young people at universities and colleges in the province the chance to train with some of the best minds in science, using the latest technologies.

If provincial finances permit, an additional \$100 million will be added each year for the next five years, meaning the endowment fund could be worth \$1 billion by 2005. More importantly, experience with the AHFMR shows every fund dollar invested can be expected to attract another two to three dollars from the private sector.



A brighter engineering future ahead: Dr. Selma Guigard (left) anticipates hiring more grad students, such as Chris Stroich, with the help of Alberta Heritage Foundation for Science and Engineering Research funding.

Industries such as farming, forestry, energy, and information and communications technology will be able to take advantage of the new discoveries stemming from the research supported, says Premier Ralph Klein in a statement.

"In the long run, this news is tremendous," says Dr. Roger Smith, vice-president (research and external affairs). "It will allow us to attract young people who otherwise wouldn't come here and further support the people we have here already. It provides long-term stability. It will have very positive snowball effects."

President Rod Fraser was equally enthusiastic. "Premier Ralph Klein is a

trailblazer in Canada. Through the establishment of this foundation, he is ensuring sustainable economic growth for our children and grandchildren."

Although it will take time for the benefits of the fund to be realized—the mechanisms to distribute money to researchers have yet to be announced—Smith feels the AHFSER will help address Alberta's "brain drain" to universities in other countries, particularly those south of the border. Canada is frequently cited for under-investing in research, he says, and these dollars will not only attract people to Alberta but also pay for the lab equipment, research assistants

and graduate students that will convince people to stay.

One scientist who should be able to take advantage of the AHFSER is Dr. Selma Guigard, who's been a civil and environmental engineering professor at the U of A for the last year and a half. Thanks to a grant from the Natural Sciences and Engineering Research Council, Guigard was able to hire one grad student to assist in her work on soil remediation. But she could use more.

"We have a lot of students who are interested in our programs," Guigard says. "Sometimes we don't have enough money to put them on projects. This is going to help."

"I think it's a wonderful step to promote science and engineering in Alberta," says Dr. Daniel Smith, director of the university's environmental engineering program. "It's been needed for a long time. My only concern is that I hope it's not set up to strictly meet the immediate needs of industry. I think there should be opportunities for curiosity-driven research too."

Dr. David Lynch, engineering dean, is confident the fund will support research across the entire spectrum, from the fundamental to the applied. If the AHFSER functions like the AHFMR, he says it will lead to more fundamental research discoveries, more application of those discoveries and more spin-off companies.

"This will be another very important piece in our arsenal," says Lynch, "to help us keep outstanding individuals in Edmonton, in Alberta, in Canada." ■

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RESEARCH
MAKES
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AHFMR takes the lead in funding building campaigns

Universities' research success needs more research space

By Lucianna Ciccocioppo



Spence: in the business of people support, but addressing the acute lack of health-research space at the universities.

You don't normally receive a packet of seeds attached to a media alert. But, as the directions indicated, the Alberta Heritage Foundation for Medical Research (AHFMR) is serious about "sowing" university research success throughout the province.

And that means providing the research space to accommodate the work conducted by AHFMR scholars, scientists and fellows in the largest universities in Alberta.

The foundation recently announced a multi-million funding allotment to boost health-research building campaigns at the universities of Alberta, Calgary and Lethbridge. This could mean a \$20-million start for a new \$100-million building for

the University of Alberta.

At a press conference in downtown Edmonton Jan. 28, AHFMR president and CEO, Dr. Matthew Spence, explained the one-time only AHFMR Challenge Offer will contribute \$45 million or up to 20 per cent, whichever is less, of the total province-wide costs of building new health research-related facilities.

"The AHFMR Challenge Offer is only part of the foundation's ultimate contribution," said Spence. "Once the buildings are built, AHFMR's competitive support of top people will help fill them, just as we've done for 20 years. Our primary business is people support. However, the lack of health-research space at the univer-

sities is now acute."

President Rod Fraser called the Challenge Fund a "bold initiative" and said the Faculty of Medicine and Dentistry would be the key beneficiary. Other areas such as pharmacology and protein engineering research would also benefit. Fraser hopes a new building will be up in about 18 months.

The Challenge Fund is the first major offer announced by any organization in response to the critical shortage of university health-research space. The funding will be distributed over a four-year period. Institutions must participate in a three-stage application process, with the first letter of intent due by June 30, 2000. ■

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folio

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Record overall enrolment for third year

Graduate numbers increase, while program quotas hold undergraduate admissions constant

By Roger Armstrong and Lucianna Ciccocioppo

For the third consecutive year, final enrolment numbers for the University of Alberta have increased. The total number of full-time and part-time graduate and undergraduate students for the fall term was 30,496. This represents an overall increase of one per cent, up from 30,269 students for the same period in 1998.

A closer look at these final numbers, which are submitted to the Alberta government in December, show full-time and part-time graduate student enrolment at the U of A increased 5.6 per cent. The undergraduate intake remained pretty much the same, says Brian Silzer, registrar and associate vice-president. First-year enrolment is up 0.2 per cent or 15 students.

"We have a lot of programs that have essentially fixed numbers, so you're not going to see radical changes in the under-

graduate numbers," says Silzer. "We are trying to emphasize quality over quantity."

The province as a whole experienced a record 6.3 per cent increase in first-year, full-time undergraduate students, according to the Association of Universities and Colleges of Canada. Nationally, the number of full-time, first-year undergraduate jumped five per cent, the largest one-year increase since 1991.

Both the University of Calgary and the University of Lethbridge increased their intake of undergraduate students. "We do have an increase of 5.32 per cent full-time undergraduates when you compare Dec. 1, 1999 (18,520 students) with Dec. 1, 1998 (17,585 students)," says Gary Krivy, U of C registrar. First-year undergraduate enrolment numbers are up 6.5 per cent, or about 260 students.

The University of Lethbridge is up an overall 10.6 per cent, with new high school intake up 20.5 per cent, or less than 150 students, according to Dennis Domoney, U of L director of institutional analysis.

The U of A enrolls almost 7,000 undergraduate students each year; most enter straight from high school but approximately 2,500 enter with some post-secondary experience. Silzer says the competition for first-year students could become fiercer. The U of A might have to consider shifting its emphasis from first- and second-year programs to a third- and fourth-year orientation.

"Our position is to encourage the high-achieving high school graduates to consider the benefits of a full four-year program at the university," says Silzer. ■

Research 'show time' at the U of A

Research Revelations 2000 set to amaze and inform you

By Roger Armstrong



RESEARCH
revelations 2000

You could say it's "one-stop shopping" for research at the U of A. The seventh annual Research Revelations on Saturday, Feb. 5, from 11 a.m. to 4 p.m. at the Butterdome, promises to be better than ever.

And for the first time, it has satellite displays at the Fine Arts Building Gallery. Take a stroll and view more than 200 displays from every faculty and most university departments and find out how research makes an impact on your life.

This year's event will have more interactive displays than ever, including the virtual reality "cave" from the Department of Computing Science. Also featured will be a display showcasing the most power-

ful academic computer in any Canadian university, the Silicon Graphics Origin 2400 (see 'Ferrari' of all supercomputers, page 6).

One project, using Web pages and Internet connections to international sights, is that of Dr. James Pinfold, director of the Centre for Subatomic Research. He is enthusiastic about turning the public on to his research.

"We can show the wonder, mystery and magic of research," says Pinfold. When people hear about fundamental physics in an "understandable" way, it's more than just information—it's a cultural event.

Naseem Hoque, a graduate student in epidemiology, will present the intricacies

of an injury-analysis project. He is involved in a project studying the whys and hows of injuries. The results assist doctors in diagnosis as well as engineers in designing safer cars.

"Research Revelations gives our researchers an opportunity to demonstrate, to their colleagues from various fields and to the public, the interesting and important research being conducted at the U of A," says Dr. Bill McBlain, associate vice-president (research). "A review of the titles of the presentations and a visit to the displays at Research Revelations reminds and informs us why the U of A is one of Canada's top five research universities." ■

Web Watch

By Randy Pavelich

New Media

<http://www.extension.ualberta.ca/newmedia>

How convenient! A Web site that is compelling to look at AND teaches people about the World Wide Web. Over the past few months, there have been new programs and Web sites popping up at the Faculty of Extension. This site is well-presented with rich graphics, effective navigation and advanced design techniques. It is a highly successful demonstration of what new media can look like.

Tall Ship HMS Rose

<http://www.tallshiprose.org/>

Ever thought of strapping on a cutlass, climbing the rigging and setting sail for that distant blue horizon? The Tall Ship HMS Rose site can help you find that salt-spray-in-the-face feeling with some evocative photography of one of the world's most beautiful sailing ships. For those feeling a little more Errol Flynn-like, you can book yourself on board for an excursion in and around the Caribbean.

Varsity Consulting Group

<http://www.bus.ualberta.ca/vcg/>

If you are going to create a professional image for your business, you'll need a Web site that demonstrates a professional approach. The fact that VCG is a not-for-profit operation makes the site all the more impressive. The entire site is Flash-driven which results in a highly interactive experience. ■

For a special Web-only WebWatch site, please visit our online version at <http://www.ualberta.ca/folio/9900/02.04/webwatch.html>

'Is there a doctor—anywhere—in the house?'

Now that the doctor shortage has hit urban communities—and far-reaching national proportions—what are the provincial and federal governments planning to do about it? Experts say increasing first-year medical student enrolment is a start.

By Johanna Dietrich

Shona MacLachlan has long dreamed of becoming a doctor. She likes helping people. She thinks patients deserve empathetic and thorough care.

She enjoys the challenges the medical profession places before her.

But MacLachlan, a fourth-year medical student, never thought she would be using phrases like "we have limited resources" or "our hands are bound" when talking about the treatment she and other physicians provide to patients in Edmonton hospitals.

"It's frustrating," MacLachlan says. "It's not what I thought I'd be doing. You see staff physicians frustrated with how they have to practice. You know how you'd like to deliver care, but your hands are bound ... You learn how to work with limitations."

Experts call the country's physician shortage a crisis in Canadian health care. For years there was debate about whether the shortage was real. Rural areas felt the initial pinch. But patients in the country's largest cities are now getting a taste of what some are calling a national medical emergency.

Last month MacLachlan experienced first-hand how widespread Canada's physician shortage is. She travelled to Vancouver, Calgary, Ottawa, Toronto, Kingston and London for residency interviews.

In every city the news was the same, she says. "Overflows. Patients stuck in ER waiting rooms until beds opened up. Frustrated doctors and terrified patients."

Surgeries are often cancelled because there are not enough intensive-care beds to house patients after their operations. There are waiting lists several months long for appointments to see specialists. Patients often wait weeks for specialized tests. Walk-in patients sit for hours in emergency waiting rooms.

Doctors say the time to act is now. And first on their agenda is to increase medical school enrolments.

"It's time for responsible action without panic," says Dr. Lorne Tyrrell, dean of the University of Alberta's Faculty of Medicine and Dentistry. "There is a significant and serious problem that we have time to solve if we start acting now."

Tyrrell, president of the Association of Canadian Medical Colleges, has long advocated medical school enrolments should never have been reduced as they were in 1991. The current physician supply in Canada will simply not keep pace with the need for doctors, Tyrrell writes in his report to the Canadian Medical Forum Task Force on Physician Supply in Canada.

There are 56,000 physicians licensed in Canada. And it is expected each year, 3.5 per cent will retire, die, emigrate—many to the U.S.—or leave practice.

At the same time, Canada's population will continue to grow by about 350,000 per year. Considering this increase, Canada needs a physician supply of approximately 2,500 per year to maintain the current physician population ratio of 1.8 or 1.9 to 1,000—a national guideline developed in the early 1990s. Factors such as increased medical knowledge and technology, the emergence of new diseases (i.e. AIDS and



The Capital Health Authority says about 140 doctors, mostly specialists, are needed immediately. Another 500 will be needed over the next five years.

hepatitis C), an aging population and increased expectations of patients are also expected to compound the problem.

Between 1993 and 1997, the number of international medical graduates practicing in Canada has more than doubled to 790 from 388—a shift Tyrrell calls "evidence of recognition by government and health authorities of physician shortages."

In presenting his report to federal Health Minister Alan Rock and provincial Health and Wellness Minister Halvar Jonson last November, Tyrrell emphasized the need for more undergraduate and postgraduate training slots at the country's 16 medical schools.

Alberta's two medical schools, at the University of Alberta and the University of Calgary, plan to request funding for 84 additional medical school spots—28 in Edmonton and 56 in Calgary—bringing the provincial total to 250. It is unlikely the universities will see any new funding for first-year spots this fall, says Tyrrell, who helped complete the U of A's proposal.

"We're working on a strong application for the fall of 2001," he says. "The process starts now for next year's request."

In his province-wide TV address Jan.

31, Premier Ralph Klein affirmed the government's commitment to putting more money into health care, but did not mention funding for physician training. Alberta Learning recently approved funding for 195 more spots in nursing schools across Alberta starting in September 2000.

But Tyrrell says he expects the province will provide funding for additional medical residents by this summer—a move that would start to relieve the shortages relatively quickly, he says. It would allow doctors who have immigrated to Canada the chance to get certification to practice here—a process that takes a minimum of two years.

Such an influx of doctors will barely begin to bail out the Capital Health Authority, which last month released figures indicating a critical shortage of doctors in Edmonton. About 140 doctors, mostly specialists, are needed immediately. Another 500 will be needed over the next five years, says spokesperson Steve Buick.

"Now that everyone agrees what the numbers actually are, we have a plan in place to start fixing the problem," he says.

Capital Health is aggressively recruiting doctors and nurses, but long-term

plans, such as increasing medical school enrolment, are needed to ensure the problem doesn't worsen, Buick says. Separate from the U of A's funding proposal, a provincial committee made up of doctors, government and health officials is also expected to recommend additional funding be given to the U of A to increase first-year medical school enrolment and for doctors seeking specialized training.

Although education is a provincial responsibility, medical education is a national issue and deserves federal funding, Tyrrell says. "If the medical profession is governed by federal standards, it's not unreasonable to expect both governments to cooperate in this regard."

For the time being, physicians and medical students alike are left practicing the best medicine they can.

"I have to remember that maybe someone's injury doesn't seem life-threatening to a doctor or nurse," says MacLachlan, the medical student.

"But to the patients and their families—it's the most horrific thing that they are being hospitalized. They are sick and need to be cared for with the same attention I'd want to be treated with." ■

"There is a significant and serious problem that we have time to solve if we start acting now."

—Dr. Lorne Tyrrell, dean, Faculty of Medicine and Dentistry

"Now that everyone agrees what the numbers actually are, we have a plan in place to start fixing the problem."

—Steve Buick, Capital Health Authority

Taking the 'Alberta Advantage'—and the U of A—across the globe and back again

By Dr. Rod Fraser

In the latest edition of Building on the Alberta Advantage, Alberta's Economic Development Authority set a goal "to increase opportunities for trade and export of Alberta products and services to new and expanded markets." The strategies to achieve this goal reflect a clear role for the University of Alberta in the development of global understanding for all Albertans.

Woven into this document is a call for us to target our language and cultural training, as well as our business programs, to meet the needs of the global marketplace. In addition, the strategy underlines the necessity to ensure our students and faculty have the opportunity to participate in meaningful international experiences.

In 1995, when we established our vision to be among a handful of the world's best universities, we committed ourselves to developing an internationally vibrant learning environment. Institutions

around the world ranked in the top 30 to 35 all appear to have active exchange programs and diverse campus communities of students and staff from around the world.

Since 1995, we have also been working to significantly enhance and build connections with our community. But the parameters of "our community" are rapidly growing. The technology we have today enabling us to "participate" in community events around the world (the millennium celebrations are one example) is a harbinger of the connections yet to come. As our graduates become increasingly active in the international marketplace, they must be prepared to face world issues that once were easily ignored. By making significant international connections during a course of university studies, our students are better prepared to take a leadership role on the global scene.

As an essential player in building on

the "Alberta Advantage," the University of Alberta has much to gain through sharing. We are world leaders in Canadian studies, and as other countries struggle with life-threatening nationalism issues, our strong research base in the Faculty of Arts is an outstanding resource. Our strength in environmental research, sustainable forest management, health-care economics and policy, and native studies, among others, will put us on the world map if we commit to leadership through sharing internationally.

Our internationalization initiative has six critical components: recruitment, academic exchanges, alumni development, relationship-building with benefactors, joint projects and curriculum development. This spring, Dr. Brian Stevenson, associate vice-president (international), and I will be leading missions to Latin America and Asia. We believe it is impor-



President Rod Fraser: Sharing U of A expertise around the city, province, country and world.

tant our campus community, our friends and supporters, government and industry partners, as well as the greater community—including Alberta taxpayers—have a clear understanding of our international activities and objectives.

In the weeks ahead, I would invite you to view our new Web site, <http://www.ualberta.ca/missions>, devoted to our international missions. We will be posting itineraries, background information, news releases, photos and success stories specifically related to these critical activities. ■

Nursing dean champions access and equity

Genevieve Gray laments the low proportion of males in the nursing profession

By Geoff McMaster

One of the first things Genevieve Gray noticed upon arriving in Edmonton three weeks ago was how few male nurses there are here. In her native Australia, about 10 per cent of the nursing workforce is male, and the proportion of male students in nursing is even higher at 15 per cent.

"We're a long way from that in Canada, and I guess I want to understand the reasons why, and what the faculty can do about it," says the new dean of nursing. Last fall only one male graduated from the

Faculty of Nursing along with 71 females. This year 29 males enrolled at the bachelor's level but only seven are expected to graduate in the spring.

So it's no surprise to find the issues that fire her most concern equity and access. At a reception to welcome Gray last month, she said "there will, we can predict, be an increasing number of mature students coming into nursing courses, and such students—and the different skills and experiences they will bring with them—will be very welcome. So, too, will people from minority or immigrant groups, indigenous peoples, and increasing numbers of men."

Gray is the newest dean at the U of A, fresh from her previous post as dean of nursing at the University of Western Sydney. She has also been nursing dean at the Schools of Nursing at Flinders and the South Australian College of Advanced Education in Sturt.

She wants to see increased access to both undergraduate and graduate programs, partly through flexibility in program delivery, such as Web-based courses. She will also encourage more nurses to take advantage of one of the best doctoral programs in the country.

"Our PhD program is in high demand," she says, "and we're looking at ways in which we might make that more accessible to nurses throughout Canada."

Gray is well aware of the nursing shortage in Alberta and is already meeting with officials at the Capital Health Authority to come up with ways to overcome it. Since the province lost so many nurses to the U.S. during the cutbacks of the '90s, she believes incentives such as scholarships "particularly at the graduate level" must be a key part of any effective recruitment strategy. She also acknowledges the difficulty of persuading nurses in the field to pursue research when they are already overworked.

Gray's own research has focused on the problems of nursing in rural and remote areas of Australia: how to deal with isolation when one is cut off from colleagues and professional advice and unable to "walk down the road and go to the library to look up what's current practice." Although the Internet has made life somewhat easier for nurses in remote com-

munities, many do not have access to computers.

Gray has also studied aboriginal communities and developed an indigenous education strategy for the University of Western Sydney, starting pilot programs to improve quality of life. It's work that is sure to give her insight into life for

Canada's First Nations.

"One of the key things is the relationship between education and housing, and their bearing on health," she says, adding she's impressed so far with the approach taken by Alberta Health to provide preventative rather than curative health care. But she says she'd like to see more.

Gray has clearly hit the ground running in her first few weeks in office. The only thing that'll take getting used to, she says, is the Canadian winter. She describes her move as having "sacrificed about 40 degrees centigrade."

"It was 28 degrees when I left Sydney last week. I arrived to minus 10, which many of you told me was mild." ■



Dean Genevieve Gray

Richard Siemens

Epcor dollars benefit business, engineering faculties

By Lucianna Ciccocioppo

Tapping into U of A brainpower and finding cleaner ways to burn coal are two of the reasons Epcor, an Edmonton-based utility company, is investing in a \$1.125 million partnership deal with the university.

"Most companies of Epcor's size cannot afford to have a research department all by themselves," said Paul Hunt, Epcor director of environmental affairs.

The U of A will receive the funds over the next five years to support teaching and research in the Faculty of

Business and the Faculty of Engineering.

Calling the partnership an example of "entrepreneurial listening," President Rod Fraser said: "Epcor expressed its desire to invest in the community, and the University of Alberta and the faculties of business and engineering worked with the company to turn this multi-million investment into tremendous opportunities for our students and faculty."

Professorships in energy policy, regulatory economics and technology commercialization will be established in

business with \$500,000 in support. In addition, Epcor will fund an annual lecture series at the university. And an expert in energy deregulation and marketing from Laval University will join the U of A's business faculty in July.

In engineering, \$625,000 will create an Epcor chair to head research projects investigating improved combustion technologies. With 90 per cent of Alberta's electricity generated in coal-fired plants, and with 800 years of coal in Alberta land, Hunt explained, "We

need to find better ways to burn it." If the new engineering chair is topped up with federal funds from the Natural Sciences and Engineering Research Council (NSERC) to \$1.25 million, it would allow the faculty to hire one new staff person.

"Epcor's support is enabling us to build real strength in these areas which are key to this province and the country," said Dr. Roger Smith, vice-president (research and external affairs). ■

Reform may be dead—but conservatism certainly isn't

Long renewal process means a new face and new party for conservatism

By Dr. Trevor Harrison, Department of Sociology

In case you missed it, Preston Manning was doing his best Regis Philbin imitation last weekend, asking Reformers, "Do you want UA? Is that your *final* answer?"

Well, technically, it isn't. Between February and March, Reform members will vote on whether they want to bury the old party and join the freshly minted Canadian Conservative-Reform Alliance party. In theory, Reformers might withhold the necessary two-thirds approval, but this seems unlikely. What would they gain? Manning has grabbed his coat and already left the party. Most of his long-time followers, if only grudgingly, seem prepared to join him.

Some members and supporters will probably try to revive Reform. Reform or some-such successor may even run candidates in the next election. But, to all intents and purposes, the Reform party is already history. It has joined that pantheon of other western populist parties—the Progressives, the CCF, his father's Social Credit—which Manning in other, better times used as his models.

What do we make of the party now replacing Reform—recently rechristened the Canadian Reform-Conservative Alliance? (Answering this requires bringing up the new party's original and unfortunate acronym, CCRAP. Better to have called the new entity "The Canadian party." It's succinct and has better chances of garnering a beer sponsorship.) And what does it all mean for Canadian politics in general?

For the most part, one had to be impressed with the proceedings. With few glitches, the old party was hustled off stage and the new party welcomed. Things were slick and polished. Watching events unfold, however, I found myself constantly thinking of a hockey team whose owner, with buckets of cash and even more ego, decides to buy a championship. Soon, the team looks great on paper: great goalie, a high-flying centre, a couple of guys who can pot goals, and maybe a Bobby Orr-type defenceman. But, as the wags say, they don't play hockey games on paper, and the team never wins.

Neither is politics fought on paper. The new party also seems to have it all: suits,

money, style, power. Canada's largest big-league clubs—Ontario's Mike Harris and the Conservatives and Ralph Klein's Alberta Tories—both support CRCAP, so much so they lent their team's general managers (Rod Love and Tom Long) to Manning for the big show. But does the team have too many right-wingers and not enough all-round team players? Will CRCAP win the trophy?

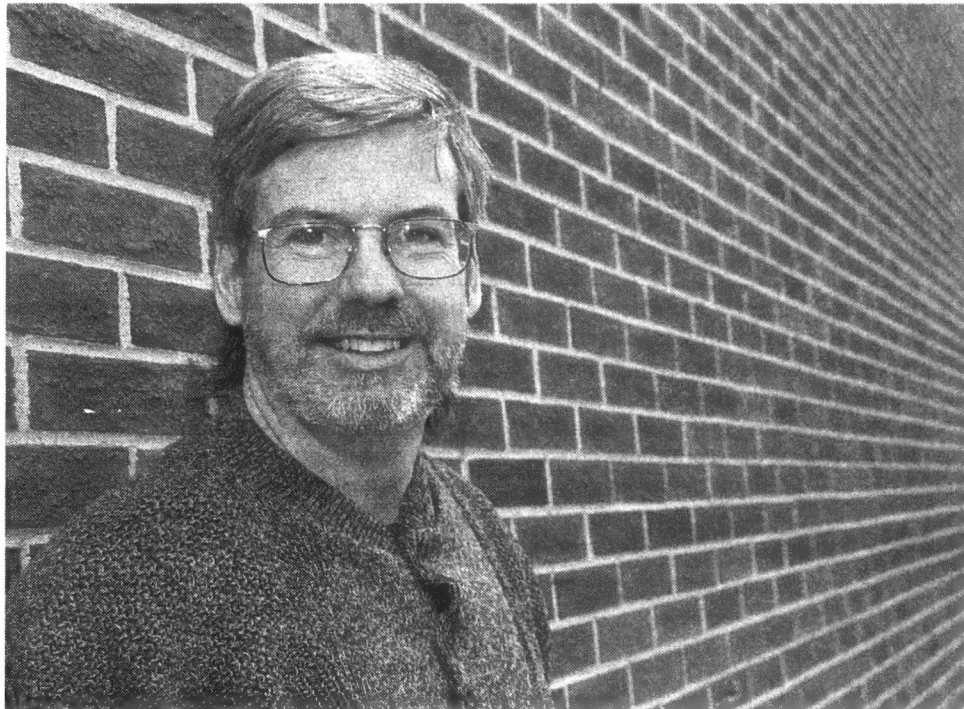
In June, the new party will hold a leadership convention. This is where some of the uncertainty about the new party emerges. Who will run? Preston Manning will certainly seek the leadership and carries impressive credentials. He founded Reform and still holds considerable sway

among party members, as witnessed by the 75 per cent vote in favour of his leadership on Jan. 30. But if Manning wins the leadership, what does this do for CRCAP's attempts to sell itself as a "new alternative" and to reach out to a broader political following? Give or take CRCAP's somewhat muted support for bilingualism, the party's policies don't seem a lot different from Reform. With Manning as its leader, voters are likely to view CRCAP as part of Manning's ongoing makeover.

("Sandra, how do you think this new party looks on me?")

Other contenders for CRCAP's leadership may emerge. Despite overtures from many quarters, neither Klein nor Harris will be among them. On the weekend, however, Stockwell Day looked like a potential candidate. Likewise, Ontario's MLA Tony Clement and the aforementioned Long. But what would it mean for CRCAP if one of them won the leadership?

A few days before the conventions, Manning asked his Reform supporters to leave their western foxhole, forge a broad coalition with other conservative-types, and charge up the hill to defeat the Liberals. The problem is that a lot of diehard Reformers aren't sure they want to leave the trenches. Also, many of them think the other troops alongside whom they are being asked to fight look a lot like Ontario Tories, the kind they broke with in 1987. Most Reformers will follow Manning into the valley of possible political oblivion, but would they follow another leader?



Tina Chang

Harrison: conventions and new party creations are "part of a long process of conservative renewal."

Clearly, it depends on who might replace Manning. Stockwell Day would suit a lot of Reformers just fine, but he is far from a shoo-in. Manning's real opposition lies in Ontario. How would old-line Reformers respond to an Ontario leader? (Cue the election slogan: "Ontario wants in!")

It's also fair to ask: "Do most Canadians care about the UA results?" The answer? "No." Canadians don't especially like or trust the ruling Liberals. But voters are unlikely to turf them for an alliance of far-right zealots (too many of whom have a penchant for foot-in-mouth disease) and corporate suits, most of whose policies—short of outright decentralization and the privatization of everything—the Liberals have already adopted with more finesse. Reform's current standing at 11 per cent in the polls is well-earned. Changing the party's name and attracting a few star players is unlikely to change this, at least in the short term.

This doesn't mean the Liberals should be too complacent. In the long term, conservatism in Canada will be redefined; a

conservative party will be rebuilt; the Liberals will fall, and a new conservative party will take office. Before CRCAP or any other "united alternative" party

emerges victorious, however, a lot of things need to happen.

The right wing in Canada remains divided by ideology, policy, personality and leadership. At 19 per cent, the Tories—remember them?—are well ahead of Reform, and not likely to exit the political scene anytime soon. And, as I've said, some remnants of Reform are likely to remain outside of CRCAP's "big tent," at least for a time, either under Reform's banner or another.

The conventions of this past weekend and the forming of CRCAP are only a part of a long process of conservative renewal. ■

Trevor Harrison is a sessional instructor in the sociology department. He teaches political sociology, Canadian society and public policy. He wrote Of Passionate Intensity: Right-Wing Populism and the Reform Party of Canada, published by U of T Press in 1995.

ICORE grants to attract, retain best high-tech researchers

New source of million-dollar research funds created

By Lucianna Ciccocioppo

It didn't take long for the three-month old Alberta Informatics Circle of Excellence (iCore) to make an impact in the competitive world of researcher recruitment and retention. ICORE, a not-for-profit consortium of university, government, business and industry representatives, had its first board meeting recently and approved a hefty grant program to fund world-class researchers in information and communications technology (ICT) at Alberta universities.

Grants of up to \$1 million per year will

soon be available to help attract outstanding leaders in ICT to the province and, at the same time, keep existing talent from leaving our borders.

The Chair and Professorship Establishment (CPE) grants will support fundamental to applied research and will vary from funding a single person in a chair or professorship to teams with 10 or more members. Teams can be composed of chairs, professors, research fellows, post-doctoral fellows and graduate students.

"This is a major thrust. We'll be able to

recruit real leaders to Alberta," says Dr. Roger Smith, vice-president (research and external affairs) and iCORE board chair. The CPE grants will top up other funds, such as fellowships and NSERC (Natural Sciences and Engineering Research Council) grants, says Smith. "This is a strong start...Attracting people in a competitive market is exceptionally challenging. And it takes time. Funding and timing are key."

"These grants are intended to be flexible and address a wide variety of needs, so we can build on Alberta's strengths in sig-

nificant and innovative ways," says Dr. Brian Unger, iCORE president.

The CPE grants can range from \$200,000 to \$1 million per year for two to five years. They may also cover operating and equipment costs. Five key research areas have been initially targeted: broadband networks including wireless; software engineering; scalable high-performance computing and computational science; massive database systems; and nanotechnology and quantum computing.

For grant details, view www.icore.ca ■

'Ferrari' of all supercomputers is at the U of A

Upgrades make the SGI Origin 2400 the largest academic computer in Canada

By David DiCenzo

Dr. Jonathan Schaeffer knows the pitfalls of academic research first hand. In the early 1990s, the University of Alberta computing science professor embarked on a research project that would take four years to complete—all because there was a lack of computer resources on Canadian soil. Resources will no longer be a problem for Schaeffer, or many other researchers for that matter, considering the U of A's SGI Origin 2400 is now the country's largest academic computer following a series of upgrades and expansions.

"It's like somebody in the desert, crawling along and starving for water—and then an oasis appears," he said.

Citing a need for better computing resources, Schaeffer, along with Dr. Brian Unger of the University of Calgary, spearheaded a project named MACI (Multimedia Advanced Computational Infrastructure) in September 1997. Since then, more than \$20 million was raised—specifically for research—through provincial grants and private-sector funding to make upgrades to the U of A's SGI Origin 2400 and the U of

C's Alpha Cluster computer. The SGI Origin 2400 now contains 112 processors and can compute intricate calculations and render complex images at high rates of speed. It consists of seven large components—or "refrigerators," as Schaeffer describes them—each containing 16 computers, with a grand total of 28 gigabytes of memory. That's more than 400 times the amount found in a typical computer.

"We have put the infrastructure in place that now allows us to compete with the rest of the world," Schaeffer explained. "Something like this will make a massive difference in the future. There are spin-offs that will impact the economy. It also acts as a magnet to attract people here. 'We have research to do; let's go to Alberta.'"

The U of A's computer will be used in a variety of innovative research fields, including studies of El Niño climatic effects, geographic information systems, DNA analysis, terrestrial ecosystems modeling and image processing for advanced tissue diagnosis, among others. Dr. John Samson, department chair for physics at the U of A, will use the resources to study the aurora borealis, commonly known as the northern lights.

Samson, along with physics associate professor Dr. Robert Rankin and their research team, will use the SGI Origin 2400 to simulate the active aurora borealis, which are produced by storms in space, to determine the negative impact these manifestations will have on tools such as communication satellites and global positioning systems.

"With a large computer, we can model the circulation and energy in the vast region of charged particles in space near the Earth," said Dr. Samson. The computer will then allow them to predict when future space storms may occur, which will be beneficial in preventing potential technical problems. "If people know ahead of time, precautions can be taken," he added.

"In our research, we've gone through a variety of parallel computers—and this one is the latest and greatest."

Steve MacDonald, a PhD student studying under Schaeffer and computing science professor Dr. Duane Szafron, has already used the new supercomputer in his work with parallel programming systems. He is building tools to make it easier to develop programs that use parallel computers.

"Without it (the SGI Origin 2400), I would be restricted to much smaller systems, two or four processors," MacDonald said. "There is certainly a benefit to being able to effectively use these smaller systems, but being able to demonstrate the effectiveness of programs created using our system with a larger numbers of processors strengthens our results. Real-world problems use larger systems, so we do need to show that we can use them effectively."

The entire MACI project, said Schaeffer, would have been impossible if not for a large collaborative effort.

"There were so many people at the University of Alberta, the University of Calgary and the University of Lethbridge that were involved—it was a definite team effort," he explained. "This process entailed two years of grant proposals and meetings. It was a lot of work by a lot of people."

Among the groups involved was Netera Alliance, a not-for-profit corporation of universities, research institutions, government and small and large private-sector companies facilitating the advanced networking and computing infrastructure for Alberta.

In the end, it was well worth the efforts. "To compete in the Indy 500, you need two things—a fast car and a good driver," said Schaeffer. "If I'm a better driver, but you have a Ferrari, the Ferrari is still going to win." ■

SUPERCOMPUTER CRUNCHES HIGH-END NUMBERS FOR HIGH-TECH PRINTER

By Lucianna Ciccocioppo

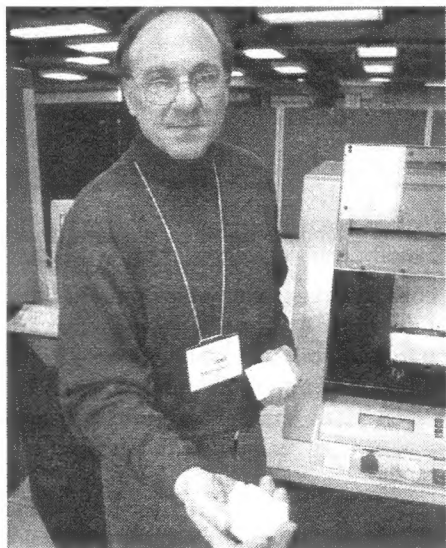
Industrial designers and scientists can use a new MACI-funded 3D printer to explore theoretical concepts and new product designs more quickly. The \$70,000 printer, a Genisys Xs model from Stratasys, takes CAD (computer-assisted design) files and "prints" 3D

polyester models. These tangible products are laid together layer after layer.

As a result, designers and scientists can take advantage of examining up close 3D models of two-dimensional CAD drawings on computer screens during the early stages of design. This can save valuable and costly time spent drafting and producing 3D models.

Professor Robert Lederer of the Department of Art and Design is using the 3D printing technology in a research project involving facial reconstructions with the Misericordia Hospital. Engineering researchers will use the technology for a formula racing vehicle-design competition. And paleontologists can use the printer to make copies of fragile skeletal remains to facilitate teaching and research.

The upgraded MACI Origin 2400 supercomputer will have no problems crunching the high-end numbers necessary to process the hefty files outputted by CAD applications, CAT and laser scanners and other devices used in rapid prototyping research and development. ■



Robert Lederer holds a model of an ear reconstruction made possible by the supercomputer and Genisys Xs printer.

Premier's "bold plan" includes \$750 M for education

By Lucianna Ciccocioppo

Premier Ralph Klein made it clear that the government's new economic plan "calls for Albertans to become leaders in education."

In his annual televised address, Klein announced an 18 per cent increase in education spending over the next three years. That's equivalent to an extra \$750 million for Alberta's education sector. However, no specifics were attached to the increase.

Alberta Learning Minister Lyle Oberg, on campus this week for the engineering facilities ground-breaking ceremony, had no details to add about how the money will be allocated to school boards and post-secondary institutions.

"There are no details yet on what that means, that I'm aware of," said U of A President Rod Fraser. "It's money that's to be available for the entire education system...But it's critically important for this university that the entire education sector be well funded, so students who come to the University of Alberta benefit from the best educational system in the country." He added: "So far the plan looks absolutely right, but the proof will be in the pudding."

Klein also stressed the importance of investing in research, specifically the creation of the new Alberta Heritage Foundation for Science and Engineering Research (see front page story), a \$500-million endowment fund established to attract and retain the world's best scientists, researchers and graduate students. ■

Students air tuition woes at town hall meeting

Administrators say there's just no other option but to increase tuition

By Geoff McMaster

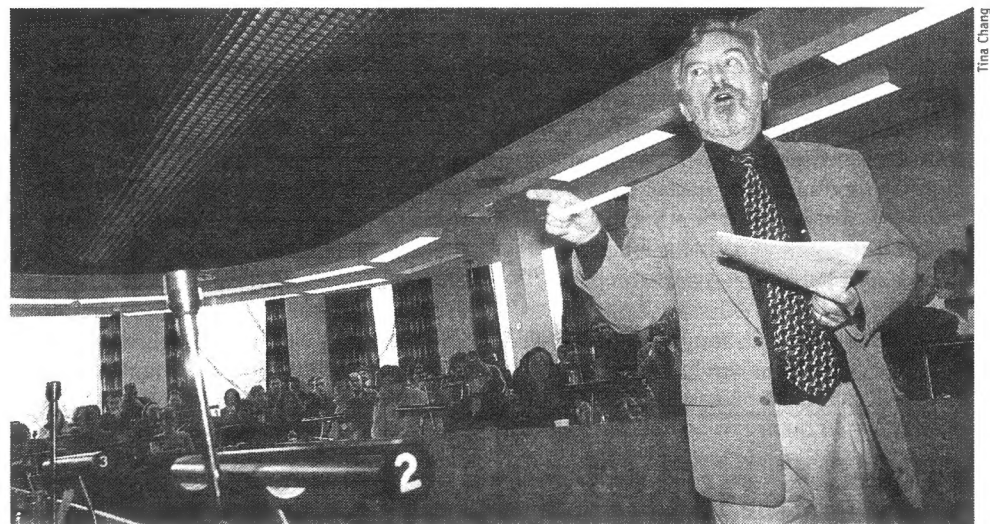
It was standing room only in the council chambers at University Hall last Monday, as students aired frustrations over proposed tuition increases.

Students' Union President Michael Chalk and Graduate Students' Association President Laura Bonnett both made presentations at the town hall meeting, expressing opposition to the proposal and imploring administration to find alternative ways of balancing the university's budget.

The proposal, which will go to the Board of Governors for a vote in March, calls for differential tuition increases of between 5.7 and 10 per cent over the next three years.

Jon Iverson, president of the Arts Students' Association, said differential fees, by which students would pay according to the cost of running their programs as well as their future earning potential, could lead to the "ghetto-ization of the university." He said some programs, particularly in arts, might be perceived as worth less than others. "Let's forget about differential fees and get back to discussing whether we want a general tuition increase," said Iverson.

The Graduate Students' Association argued they shouldn't have to pay a differential fee of more than two per cent since they contribute to the university in a number of ways, including teaching, research and winning awards.



Standing room only at the town hall meeting: students aired their frustrations about rising tuition costs, and administrators replied there are no other options in the face of balancing the university's core operating budget.

Several students complained of rising debt loads that are becoming increasingly tough to bear. According to Chalk, the average student loan in Alberta is about \$17,360 and has been going up by about \$1,000 per year.

"It's becoming more and more expensive every year...we don't seem to be a very high priority," said third-year engineering-physics student, Chris Germain. "I think some increase is appropriate, but I'd like to see it somewhere around inflation."

Vice-President (Finance and Administration) Glenn Harris outlined the uni-

versity's financial position, explaining while revenue from the government and private donors is rising, most of that money is earmarked for specific projects. The core operating budget which supports the day-to-day operation of the university and covers faculty salaries is "under enormous pressure," he said.

Dr. Doug O'wram, vice-president (academic) and provost, said he'd do everything in his power to lobby the provincial government for more core funding. "If we can slow down the tuition increases, we will," he said, "as long as programs don't have to suffer." ■

Steering the VP (academic) course for five more years

Historian seizes his chance to shape history

By Geoff McMaster

It's a question Dr. Doug Ooram admits he's had to struggle with: Why put on hold a successful academic career to take on what is often a thankless job, fighting for mere core funding and serving as fall guy for some of the sharpest tuition increases in the university's history?

"In all honesty, I came into this job [in 1995] and people heard me say, 'It's only a five-year term—I want to go back to history. I've been an active historian and I want to write more books before I retire,'" recalls Ooram, re-appointed in December to a second five-year term as vice-president (academic) and provost. "I recognize that in taking a second term, there's a good chance it'll be tough to move back after 10 years out."

It's a chance he's willing to take, however, regardless of the bumps and bruises. As an established historian with six books under his belt, he now sees an opportunity to help shape history. On only three other occasions (the 1840s and the two post-war periods of the 20th century) has there been such a radical shift in the fundamental nature of the Canadian university, he says, and we are now on the brink of the fourth. He believes the direction taken in the next five years will determine the U of A's course for the next three or four decades. And he will help steer that course, since his role as provost allows him to work closely with the president in making decisions affecting the university as a whole.

"With huge changes in funding, with tremendous globalization of the economy, expansion coming back in after years of cuts, and a whole generation ready to retire in North America ... it is a very interesting time to be here," he says. He says it's more important than ever for the U of A to affirm its position as a top school in Canada since merely possessing a degree will soon be far less important than where

it is earned.

Moreover, having weathered the cut-backs and consolidations of his last term, Ooram wants to be part of the re-building process now that government funding has finally started flowing back into the system. One example is the recent announcement of a new \$500 million Alberta Heritage Foundation for Science and Engineering Research (AHFSER), a huge boost for science and engineering.

Such funding windfalls will allow for expansion the likes of which we haven't seen in years. But there's one problem, says Ooram: "It's still not core budget. You can't pay professors with that." He says the government has been earmarking money for research in areas it feels are important, and he welcomes their largesse. But in many ways the university is left with hands tied, especially when the core budget barely keeps pace with inflation.

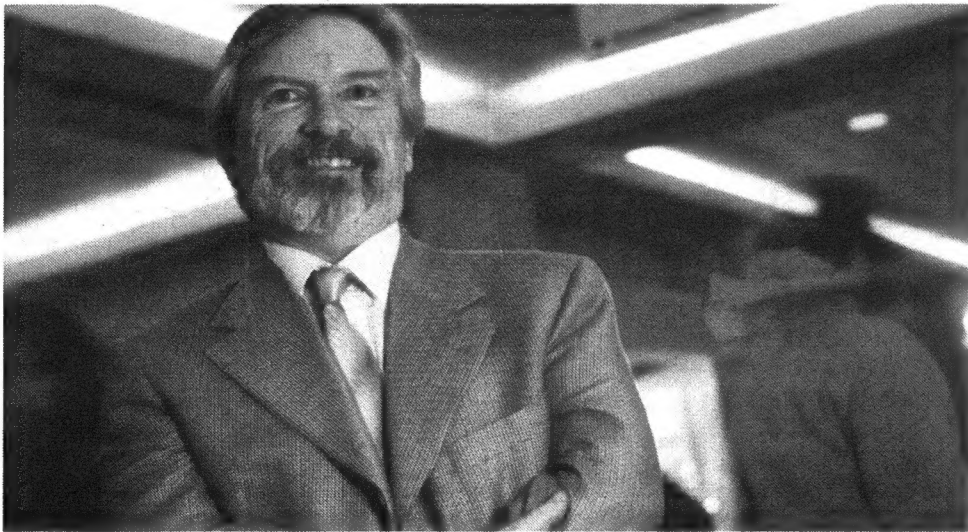
Providing competitive faculty salaries will therefore remain a crucial challenge of Ooram's next term. While he's proud of the contract he helped negotiate in 1997, ensuring a nine per cent increase over three years, he says there's no denying salaries are still far below where they should be.

"Outside of Quebec, we're roughly the same as Western but behind the other big universities, and that's worrying," he says. Given that the U of A was in second place nationally for salaries in the early '80s, the slide has been dramatic. Despite lower salaries, however, the university has had great success in hiring new faculty over the past few years, bringing in "some really great people," says Ooram. Holding on to them, however, will not be easy.

The new federal millennial chairs program is one small measure to help close the gap. It could mean up to 60 or 70 posi-

"If you ever start to think the purpose of a university is to simply raise money or form an alliance with a corporation, then you're in trouble... you always have to be willing to say no."

—Dr. Doug Ooram



Tina Chang

Vice-President (Academic) and Provost Doug Ooram: seizing the chance to be a part of history.

tions for the university. But since eligibility is based on success with the three federal funding councils—two of which support health, and natural sciences and engineering—those positions are likely to go mainly to the sciences, reflecting another dilemma that hits Ooram close to home.

"I'm from arts, and it's my view this university should not focus only on certain programs or faculties and turn the others into service areas. A university of this size should aim for excellence in all its faculties. We have to make choices, but they should reflect strengths across the board... That's where I draw the line in the sand."

Ooram is also firm on the university's adoption of the business model in recent years, a shift that has seen students become "customers" or "clients," with the focus of attention decidedly on the marketplace.

"Universities have to recognize that if they don't form partnerships and alliances in the wider world, they'll get pushed aside. Also, students are customers. If we don't treat them responsibly, in terms of services and recruitment, they'll go someplace else."

"The danger is we should never lose the academic core. The purpose of a university is to maintain a standard and pass

those standards on to the next generation. If you ever start to think the purpose of a university is to simply raise money or form an alliance with a corporation, then you're in trouble... you always have to be willing to say no."

Ooram also believes the university has to make greater use of Web technology to remain competitive. In five years, he says, 85 to 95 per cent of faculty will probably be using some online resources. But going online, he says, should never be done at the expense of face-to-face interaction in the classroom.

The frustrations and disappointments that inevitably befall someone in Ooram's position are many. But as he looks ahead, there is one accomplishment that shines for him like a beacon, keeping him true and reminding him of his mission.

"If I could go to a specific event in which I take a lot of pride, it's the teaching and learning celebration which I instituted." After all, he says, to demonstrate in style each year in a public ceremony that "the university is a mixture of students and faculty, teaching, learning and research, and that all these things at some place come together" is what this university is all about. ■

Peace activist kicks off International Week

By Geoff McMaster

The political climate in the Philippines is worse than at any time since the dictatorship of Ferdinand Marcos, says Filipina peace activist Risa Hontiveros-Baraquel. The country suffers from violence arising mainly from economic disparity, and

Philippines President Joseph Estrada is doing little to bring about social reform despite his pre-election promise two years ago to fight poverty and crime.

"These are very humbling times for the Philippine peace movement," said Hontiveros-Baraquel. Peace advocates and civil society groups "have given up almost all hope," she says, but are nonetheless trying to find ways to "think creatively and critically" to survive the next four and half years of Estrada's administration. One-third of the country's population lives under the poverty line, inciting rebel movements such as the Islamic Moro National Liberation Front to revolt.

"It can only get better," she said, stressing the importance of remembering the "dark and horrific years" and carrying on the work of the Coalition for Peace, an organization for which she served as secretary-general between 1988 and 1992.

Hontiveros-Baraquel spoke at the introduction of International Week 2000, taking place this week on campus and which explores local and international perspectives on global issues. She was introduced by the drums of the University of Alberta West African Music Ensemble and the U of A's new Associate Vice-President (International) Brian Stevenson.

"These are very humbling times for the Philippine peace movement."

—Risa Hontiveros-Baraquel

Invited as special guest by the International Centre, Hontiveros-Baraquel has been actively involved in her country's politics since her days as a student leader in high school and college. A well-known news anchor and producer, she has also been a member of her country's National Peace Conference since its inception in 1990 and last year chaired a committee on socio-economic reform for the Government Panel for Peace Talks with the National Democratic Front.

In discussing the difficulties her country faces, she said Canada has played a much-appreciated role in the Filipinos' struggle for peace.

"Some of the more recent initiatives were in large part pushed by your government," she said, citing efforts to ban land mines and reduce the manufacture and distribution of small arms. "This government has been more helpful than our previous [American] colonizers," she said.

The women's movement in the Philippines has also greatly contributed to the peace movement, because women tend to "suffer the brunt of the violence," she said. Since the early 1990s, some regions have managed to set up peace zones where armed forces are forbidden entry.

While the political situation looks



Richard Siemens

Risa Hontiveros-Baraquel: hoping for a better life in the Philippines, where one-third of the population lives below the poverty line.

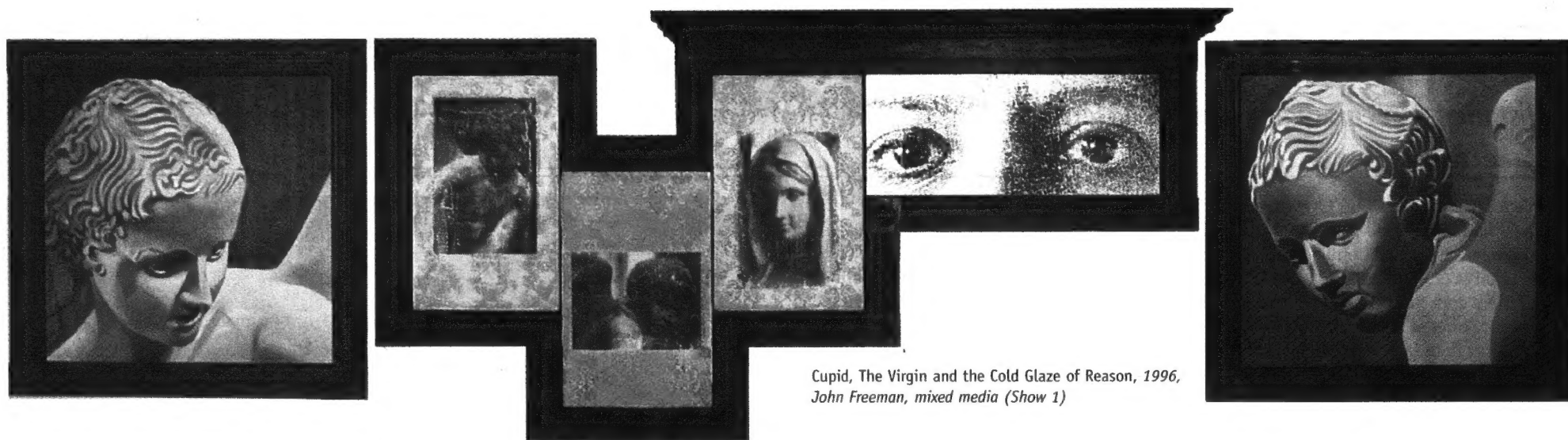
bleak at the moment, Hontiveros-Baraquel called for persistence in this "season of waiting... especially now with the radical temporal and psychic shift taking place on the turn of a new millennium, we must stand in solidarity so we'll be ready as new opportunities present themselves." ■

International Week 2000 ends Saturday, Feb. 5 with a session on issues and strategies in building peace and a wrap-up party in the Power Plant featuring a dance theatre performance and music by the Alassane Fall Band.



Richard Siemens

Drummers with the Alberta West African Music Ensemble.



Cupid, The Virgin and the Cold Glaze of Reason, 1996, John Freeman, mixed media (Show 1)

ARTISTS AT WORK

Department of Art and Design faculty and staff show their stuff in the Fine Arts Building Gallery

By Phoebe Dey

It's show and tell time at the Fine Arts Building gallery.

For the first time in almost 10 years, the Department of Art and Design is showcasing the diverse work of more than 40 staff members, from printmaking technicians to industrial design professors.

In previous years the department has profiled one faculty member at a time, but changes within the department prompted a change of plan.

"There is a new chair coming in and we felt like it was the right time," said Dr. Anne Whitelaw, assistant professor and coordinator of history of art, design and industrial design, the division that helped select the works. "It's a new century and time for us to take stock of what we're doing as a department."

The exhibit, *113 Degrees West: In the Cross Hairs*, gives the department a chance to recognize its faculty and staff. The show is split into two exhibitions: the first began Jan. 18 and ends Feb. 6. The second collection runs from Feb. 15 to Mar. 5.

"We have sessional instructors who are crucial to the department, and technicians

who are essential to the running of student programs. They are artists in their own rights," said Whitelaw.

Because of the number of artists at work, the scope of media in the show is far-reaching. Louise Asselstine, an art technician/demonstrator in the department, will be displaying Polaroid-transfer prints manipulated with water-colours in the second part of the show.

"Sometimes my colleagues who work a few yards from me don't know what I'm doing. These shows will complement each other, but we have to realize both shows cannot display everything. What we see is a number of tips of a number of icebergs."

—Jorge Frascara, graphic design professor

"It's really good for students to see what their instructors and technicians are doing," said Asselstine. "The show doesn't fit together as well as it should if there was a theme, but it's still good to see. And it's good for me to get my work out there."

Also waiting to show his work is Jorge Frascara, a graphics professor in the department. His students—and the public—will see posters related to traffic safety, which he designed for Alberta high schools, three books on art shows he published last year and an alphabet he designed for children with disabilities.

"This is a treat for me because my work is very specific so it doesn't usually make it to a general audience," said Frascara.

Not only is it important for students to view their teachers' work, it's just as important for staff to see the art, said Frascara.

"Sometimes my colleagues who work a few yards from me don't know what I'm doing. These shows will complement each other, but we have to realize both shows cannot display everything. What we see is a number of tips of a number of icebergs."

Lisa Murray, who has a small painting and a screen print in the first show, agrees. "We're all so busy with our own work, I had no idea what everyone else was doing," said Murray, a sessional instructor. "I was surprised with the complementary range of work. I love John McGie's pottery, and it's not something we teach here, so it's great to see."

Marc Siegner, an art technician/demonstrator, hopes the show will motivate his students.

"It's important for them to see what the people who teach them actually can do. And it's something to which they can aspire," said Siegner, who had two prints on display in the first exhibition. "At the very least, it gives the program some

credibility, especially nowadays with rising tuition. This is when we can show people what students are getting for their money."

Robert Lederer's work demonstrates how motley his department's talents can be. The full-time faculty member and

"At the very least, it gives the program some credibility, especially nowadays with rising tuition. This is when we can show people what students are getting for their money."

—Marc Siegner, art technician/demonstrator

industrial design professor entered an exercise machine designed for people with spinal cord injuries. Lederer was pleased to have the chance to show his functional piece at a new venue.

"I've had this on display at biomedical conferences but it's not the type of thing that usually fits into a gallery situation," he said. "This show helps dispel the myth that most of us in

the Department of Art and Design teach because we cannot 'do.' The important part is for students to be aware we not only teach but we 'do.' I think they are aware of that now."

Show 1 of *113 Degrees West: In the Cross Hairs* ends Sunday, Feb. 6, but the *Fine Arts Gallery* will also be open Saturday, Feb. 5 from 10 a.m. to 5 p.m., due to the Research Revelations event on campus. Show 2 begins Feb. 15 and runs until March 5. For more information, call the Fine Arts Building Gallery at 492-2081.



Inner Key, 1999, Royden Mills, welded steel (Show 1)

Nike, 1999, Eric Butterworth, acrylic, charcoal on canvas (Show 2)

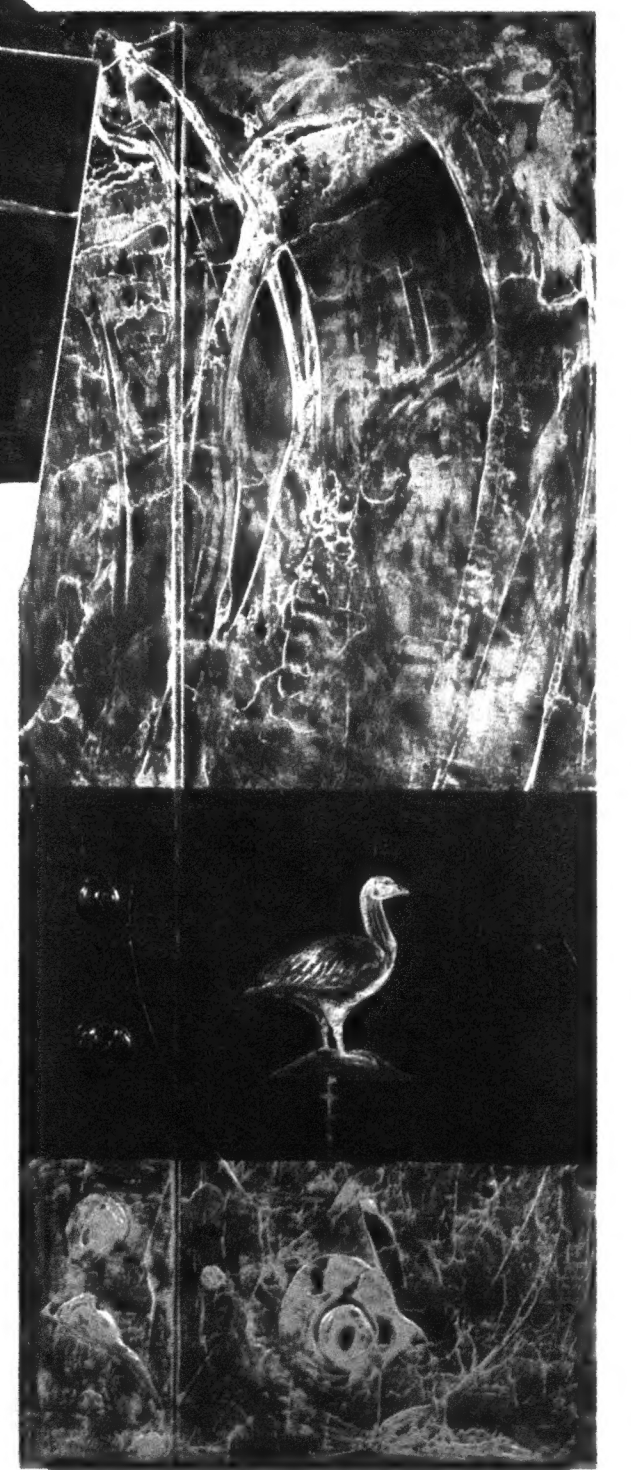


Chen Rossi on the Flatlands, 1999, Tom O'Flanagan, acrylic and iron pigment (Show 1)



Above from left: 12495 V (Dixie Cups), 1999, Helen Gemtzen, lithography, etching, chin collé, screen print (Show 2) Trace Series/Boat, 1998, Fiona Connell, mixed media (Show 1) "Bug Off," magazine rack, Bruce Bentz, baltic birch plywood, maple, paint (Show 2)

Far left: Kenny's Kitchen Table, 1995, Ken Horne, Honduras mahogany Pit Fired Bowl with Gold Leaf, 1996, John McGie, porcelain Mine Site: Two Tanks, 2000, Steven Dixon, gelatin silver photograph (Show 2)



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events

APO SEMINARS AND WORKSHOPS

APO LEARNING IMPLEMENTATION COMMITTEE

February 8 and March 22, 8:30 – 11:30 am
Melanie Goroniuk and Brian C. Forbes, "Health Recovery Support – Making the best use of EFAP and Disability Management Resources." CAB 219. Info: 492-7126 or karen.wilson@hrs.ualberta.ca

February 10, 9:00 am – 12:00 pm
William Betteridge and Lorne Gretzinger, "Writing the Job Fact Sheet." No charge. CAB 219. Info: 492-7126 or karen.wilson@hrs.ualberta.ca

February 15 and 18, March 14 and 16, 8:30 am – 12:00 pm
Ashley Daniel, "Resolving Disputes in the Workplace." CAB 219. Info: 492-7126 or karen.wilson@hrs.ualberta.ca

February 16, 8:00 – 10:00 am
"Managing Your Career Breakfast – Enriching Your Life Mid-Career." Heritage Lounge, Athabasca Hall. No charge. Continental breakfast provided. Info: 492-7126 or karen.wilson@hrs.ualberta.ca

CAREER FORUM

CAREER AND PLACEMENT SERVICES

February 8, 4:30 pm
CaPS is hosting the Finance Career Forum, room 1-90 Tory. Student admission: \$4.00 in advance, \$5.00 at the door. Info: 492-4291.

CONFERENCE

UNIVERSITY OF ALBERTA AFRICA SOCIETY

February 25 – 26, 2000
Two-day conference, keynote speaker Wole Soyinka, 1986 Nobel Laureate in Literature, "Prospects for an African Renaissance: Culture, Development, Reconciliation." At the U of A. Info: www.ualberta.ca/~afso/conference.html or U of A International Centre 492-1134 or The Africa Society 438-5708/1-888-282-4005.

EXHIBITION

EXTENSION CENTRE GALLERY

until March 1
"Dr. Steven Aung's Spiritual Calligraphy and Paintings and his collection of Taoist Bamboo Carvings." By Steven KH Aung, MD, FFAFP. Gallery hours: Monday – Thursday, 8:30 am – 8:00 pm; Friday, 8:30 am – 4:30 pm, Saturday, 9:00 am – 12:00 noon. Room 2-54 University Extension Centre. Info: 492-3034.

FAB GALLERY

Show II: February 15 – March 5, 2000
Art & Design Staff Show: "113 Degrees West: In the Cross Hairs." Showcases work of tenured faculty, sessional instructors, technical staff. Opening Reception: Show II – February 17, 7:00 – 10:00 pm. Info: Blair Brennan, 492-2081. Gallery hours: Tuesday – Friday, 10:00 am – 5:00 pm; Sunday, 2:00 pm – 5:00 pm; closed Monday and Saturday.

GENERAL LEADERSHIP AND MANAGEMENT PROGRAMS

BANFF CENTRE FOR MANAGEMENT

February 6 – 11
"Maximizing Business Results."
February 27 – March 3
"Leadership in Environmental Dispute Resolution."
March 7 – 17
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MUSIC

DEPARTMENT OF MUSIC

Master of Music Recital, February 4, Simone Bauer, piano – HAS BEEN POSTPONED.
February 5, 3:00 pm
Master of Music Recital: Robert Azsmies, composition. Featuring his works. Free admission. Convocation Hall, Arts Building.
February 6, 8:00 pm
Master of Music Recital: Georgina Williams, piano. Free admission. Convocation Hall, Arts Building.
February 7, 12:10 pm
Music at Noon: Convocation Hall Student Recital. Featuring students from Dept of Music. Free admission. Convocation Hall, Arts Building.
February 10, 8:00 pm
Opera scenes. Kim Mattice-Wanat, director. "Le Nozze di Gigolo." An original opera (of compiled excerpts) in French, Italian, German, and English. Admission: \$5/student/senior, \$10/adult. Convocation Hall, Arts Building.
February 11, 8:00 pm
The University of Alberta Symphonic Wind Ensemble Concert. Fordyce Pier, director. Admission: \$5/student/senior, \$10/adult. Convocation Hall, Arts Building.
February 12, 2:00 pm
Faculty Recital. Allison Storochuk, clarinet; Roger Admiral, piano. Admission: \$5/student/senior, \$10/adult. Convocation Hall, Arts Building.

RESEARCH ASSISTANT— SEARCH PROGRAM



**Alberta Heritage Foundation
for Medical Research**

Swift Efficient Application of Research in Community Health (SEARCH) is a unique research training program for health care professionals working in Alberta's health regions. Administered by AHFMR, it is delivered in partnership with the Alberta Health and Wellness, the Provincial Mental Health Board, the regional health authorities and the Universities of Alberta and Calgary.

AHFMR and its partners are planning the third offering of this program. We are seeking a motivated individual to provide assistance in the planning and implementation of the program. The SEARCH research assistant will provide background research and documentation in support of program management, including advisory and steering committees, liaise with other groups as necessary, and perform required office duties.

If you enjoy working independently in a changing environment, managing multiple projects, and have excellent analytic and writing skills, this position will be of interest. An understanding of the Alberta health care environment is important and experience with research or scientific writing will be an asset. An undergraduate degree with 2-4 years relevant experience in the health field or a graduate degree in a health-related area is required.

Established by the Government of Alberta in 1980, the Alberta Heritage Foundation for Medical Research has awarded more than \$570 million to biomedical and health researchers at Alberta universities, affiliated institutions, regional health authorities and other health related institutions.

This full-time position is located in Edmonton.

Salary Range: \$35,000 – \$42,000

Interested applicants should provide a resume by Feb 17 to

Sarah Hayward MPH
Manager, SEARCH
Alberta Heritage Foundation
for Medical Research
Suite 3125 Manulife Place
10180 – 101 Street Edmonton Alberta T5J 3S4
E-mail: shayward@ahfmr.ab.ca Website: www.ahfmr.ab.ca

February 12, 6:30 pm
The U of A Academy Strings Valentine's Day Ball.
Faculty Club. Info: Laura Grantham-Crosley, 487-6875.
February 13, 8:00 pm
Faculty Recital. Janet Scott Hoyt, piano with
guest Jessica Linnebach, violin. Include works by
Bach, Vitali, Fauré, Sarasate. Admission: \$5/student/
senior, \$10/adult. Convocation Hall, Arts Building.
February 14, 12:00 pm
Noon-hour organ recital featuring organist
Belinda Chiang. Free admission. Convocation Hall,
Arts Building.

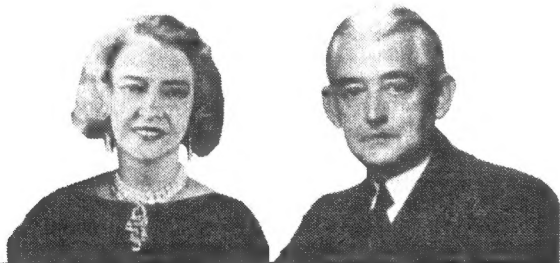
February 14, 8:00 am
Faculty Recital. Marnie Giesbrecht, organ;
Joachim Segger, piano. Admission: \$5/student/senior,
\$10/adult. Convocation Hall, Arts Building.

THEATRE

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February 10 - 19
Alan Ayckbourn's "A Chorus of Disapproval." Box
Office: 492-2495. Timms Centre for the Arts.

2000-2001 Killam Annual Professorships



Applications for the 2000-2001 Killam Annual Professorships are now available. All regular, continuing, full-time academic faculty members who are not on leave during 2000-2001 are eligible to apply. Deans, Department Chairs and other senior University administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate Deans and Associate Department Chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty in any given year. Each Killam Annual Professor shall be presented with a \$2500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative ac-

tivities, presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be substantial contributions to the community beyond the University, as evidenced by community involvement directly linked to the applicant's university responsibilities and activities.

Awards are tenable for twelve months commencing 1 July 2000. The completed application must be received at the Office of the Vice-President (Research and External Affairs), 3-7 University Hall, by **Friday, February 25, 2000 at 4:30 p.m.** The awardees shall be announced by early May, and they will be formally recognized at the Killam Dinner in the autumn of 2000.

Applications and further details are available on the home page of the Vice-President (Research and External Affairs) at: <http://www.ualberta.ca/~univhall/vp/vprea/awards.html>

Please contact Annette Kujda, Administrative Assistant, Office of the Vice-President (Research and External Affairs) at extension 8342 or email: annette.kujda@ualberta.ca if you have any questions.

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DR. ALAN DAVIS
Vice President, Academic
Athabasca University

Panelists:

Wayne Ranke B.A., M.A., LL.B., LL.M.:
Past President, Association for
Academic Staff for University of Alberta

Dr. Dianne Oberg
Associate Professor, Library and Information
Studies, Chair Elementary Education



Wednesday, February 16th, 2000
3:30 - 5:00 p.m.

Timms Centre for the Arts
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A reception will follow. RSVP for the event by calling Diane Millar
at 492-1521 or dmiller@ualberta.ca
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talks

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CANADIAN INSTITUTE OF UKRAINIAN STUDIES

February 17, 3:30 pm

Darusia Antoniuk, "The Transformation of the Image of the Writer in Ukrainian Literature of the 1980s." Room 3-52 Athabasca Hall. Info: 492-2972.

DEPARTMENT OF AGRICULTURE, FOOD & NUTRITIONAL SCIENCE

Nutrition and Metabolism Research Group

February 9, 12:00 - 1:00 pm

Dr. Marco Turini, Nestle Research Center, "Functional Foods: From Concepts to Products." Room 227 Medical Sciences Building.

February 16, 12:00 - 1:00 pm

Dr. David McMurray, Texas A&M University, "Mechanisms of suppressed vaccine-induced resistance by dietary protein deficiency in a guinea pig model of pulmonary tuberculosis." Room 227 Medical Sciences Building.

DEPARTMENT OF BIOLOGICAL SCIENCES

Departmental Seminar Series

February 10, 3:35 pm

Alice Graham, "Spiders of Disturbed Wet Areas in Central Alberta." Room TB-W1 (Tory).

February 17, 3:35 pm

Dr. John Spence, "Seasonality of flight in Alberta pond-skaters: some generalizations meet a 16 year data set." Room TB-W1 (Tory).

February 25, 2:30 pm

Glen Van Der Kraak, "Status of studies of endocrine disruption in wildlife." Room M-145 Biological Sciences Building.

Molecular Biology and Genetics Research Group (part of the Genetics 605 seminar series)

February 11, 4:00 pm

Kathy Magor, "Defective antibody genes of ducks." Room M-149 Biological Sciences Building.

February 18, 4:00 pm

Esmond Sanders, "Programmed cell death in embryonic development." Room M-149 Biological Sciences Building.

Ecology Seminar Series (part of the Biology 631 seminar series)

February 11, 12:00 noon

Ellen MacDonald, "Conserving genetic diversity of lodgepole pine and white spruce in northwestern Alberta: natural patterns of population variation and impacts of forest management." Room M-137 Biological Sciences Building.

February 18, 12:00 noon

Jyrki Jalonen, "Effects of alternative forest treatments on boreal understory vegetation." Room M-137 Biological Sciences Building.

Physiology, Cell and Developmental Biology Seminar Series (part of the Biology 642 seminar series)

February 9, 12:00 noon

Fern Galvez, "The physiological mechanisms of silver toxicity in freshwater fish." Room G-114 Biological Sciences Building.

February 16, 12:00 noon

Tony Williams, "Investigating physiological variation and trade-offs using phenotypic engineering." Room G-114 Biological Sciences Building.

DEPARTMENT OF BIOMEDICAL ENGINEERING

February 16, 5:30 pm

Videoconference seminar to U of Calgary: Monica Gorassini, "Teaching the Spinal Cord to Walk." Room 2-31 Chemical Engineering Building.

DEPARTMENT OF CHEMISTRY

February 9, 11:00 am

Professor Chris M. Ireland, University of Utah, "Marine natural products: Studies of structure and function." Room E3-25 Chemistry Centre.

DEPARTMENT OF COMPUTING SCIENCES

February 14, 3:30 pm

Distinguished Lecture: Steve Cook, U of T, "The Propositional Satisfiability Problem in Theory and Practice." Room 128 V-Wing.

DEPARTMENT OF ENGLISH

February 4, 12:00 pm

Reading: Austin Clarke, TBA. Room 4-29 Humanities. Info: 492-1046.

February 17, 3:30 pm

Kristjana Gunnars and Betsy Sargent, "Writing (in) the Academy: the Location of Creativity." Room L-3 Humanities Centre.

DEPARTMENT OF HISTORY AND CLASSICS

February 10, 3:30 pm

John Herd Thompson, Duke University, "Imag[in]ing a Canadian West: Images and a Western Canadian Identity." Room 2-58 Tory.

February 11, 3:30 pm

John Herd Thompson, Duke University, "Inventing America/Constructing Canada: Stereotypes and National Identity Across the Continental Divide." Tory Breezeway 2.

February 17, 3:30 pm

Nicholas Wickenden, "The Jews in Later Medieval Basilicata." Room 2-58 Tory.

February 28, 3:30 pm

David Duke, Acadia University, "The Wired Classroom: The Acadia Experience." Room 2-58 Tory.

DEPARTMENT OF MEDICAL GENETICS

Medical Genetics Rounds

February 9, 12:00 - 1:00 pm

Dr. Diane Cox, "Genes for liver disease." Room 2-07 HMRC.

February 16, 12:00 - 1:00 pm

Dr. Victor Tron, Dept of Lab Medicine and Pathology, "Ultraviolet light effects on skin: the role of p53." Room 2-07 HMRC.

DEPARTMENT OF MODERN LANGUAGES

February 9, 3:30 pm

Serhii Plokhly, "Orthodoxy, Catholicism and Cultural Identity in Early Modern Eastern Europe." Room 2-32 Tory. Info: 492-0733 or dmitriev@ualberta.ca

February 16, 3:00 pm

Tova E. Yedlin, "Russian Intelligentsia Between Western Social Democracy and Bolshevism: Maxim Gorky's Case." Room 3-26 (Senate Chamber), Arts Building. Info: 492-0733 or dmitriev@ualberta.ca

DEPARTMENT OF PHILOSOPHY

February 4, 3:30 pm

Philosophy Colloquium: Andrew Brook, Carleton University, "Kant, Self-Awareness and Self-Reliance." Room 4-29 Humanities Centre.

February 11, 3:30 pm

Philosophy Colloquium: Paul Viminiz, University of Lethbridge, "The Non-identity of Indiscernibles in Social and Political Discourse or How to Boil a Frog." Room 4-29 Humanities Centre.

DEPARTMENT OF PHYSICS

February 4, 3:15 pm

Colloquium: Dr. Eric Pinnington, "Astrophysics with a Doughnut." Room V-129.

February 10, 3:00 pm

Institute for Geophysical Research Seminar: Dr. Melvyn E. Best, Bemex Consulting International, Victoria, BC, "Electromagnetic Methods in Environmental Remediation: From Landfills to Tar Pits." Room P-631.

February 11, 3:15 pm

Joint Colloquium for Geophysical Research and Dept of Physics: Dr. Melvyn E. Best, Bemex Consulting International, Victoria, BC, "Sydney Tar Ponds, Nova Scotia - Hydrogeology and Leachates: An Overview." Room V-129.

DEPARTMENT OF PHYSIOLOGY

February 4, 3:30 pm

Andreas Schwingshackl, "The involvement of ion channels in human eosinophil respiratory burst." 2-07 HMRC.

February 9, 9:00 am

Douglas Watt Allan, PhD Thesis Defense, "Prenatal development of the phrenic nerve and diaphragm: Studies into the putative role of PSA-NCAM and the pathogenesis of congenital diaphragmatic hernia." Room 2-07 HMRC.

DEPARTMENT OF RENEWABLE RESOURCES

February 10, 12:30 - 1:50 pm

Dr. Kevin Devito, "A physical basis for adaptive buffer strip strategies: Understanding landscape controls on the loading of phosphorus to boreal lakes following timber harvest." Room 2-36 Earth Sciences Building.

February 17, 12:30 - 1:50 pm

Mr. Gilbert Van Nes, Crown Prosecutor, Alberta Justice, Edmonton, "Environmental regulatory framework in Alberta." Room 2-36 Earth Sciences Building.

DEPARTMENT OF RURAL ECONOMY

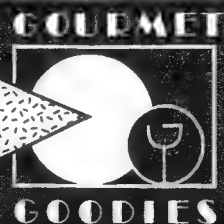
February 7, 10:30 am

With the Royal Bank Agricultural & AgriBusiness Banking: Dr. David Kohl, Virginia Tech, "Global Agricultural Trends and How They Affect Decisions for Canadian Farms." Horowitz Theatre.

DEPARTMENT OF SECONDARY EDUCATION

February 18, 2:00 - 3:00 pm

Dr. Hae-Ryung Yúe, Yeungnam University, Kyongsan, Korea, "Ideologies in Korea Children's TV: A Culture in Transition in a Postmodern Period." Room 122 Education South.



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DEPARTMENT OF SOCIOLOGY

February 7, 2:00 pm
Public lecture: Dr. Susan A. McDaniel, "Leaky Boundaries: Bodies, Borders and Well-Being." 5th Floor Business, Stollery Centre (West).

ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

February 10, 4:30 pm
Dr. Fiona Schmiegelow, "Critical Thresholds in Habitat Conservation and Species Loss: A Useful Concept for Biodiversity Management?" Alumni Room, Students' Union Building.

FACULTY OF EDUCATION

Centre for Research on Literacy

February 4, 3:00 pm
Dr. Dennis Sumara, York University, "Researching Complexity, Representing Insight." Education South 651a.

February 17, 12:30 - 2:00 pm
Luncheon: Carol Leroy, Director of Reading and Language Clinic, "Gender, power and reading: Conversations with a bad boy." Education South 651a. As the lunch will be catered, please RSVP before February 14 to Paula Kelly at 492-4250 ext 292 or paula.kelly@ualberta.ca

March 1, 3:00 pm
Jonathan Osborne, School of Education, King's College London, "A New Agenda for Science Education: Science as Practised or Science Appreciated?" Education South 651a.

March 3, 3:00 pm
Drs. Gay and Jeff Bisanz, Psychology, "Science at the Supermarket: Comparing What Appears in Print, Experts' Advice to Readers, and What Students Want to Know." Education South 651a.

JOHN DOSSETOR HEALTH ETHICS CENTRE

February 18, 12:00 - 1:00 pm
Health Ethics Seminar Series: Brenda Cameron, Faculty of Nursing, "Toward Delineating Ethical Moments: Relevance for Practice." Room 2-07 HMRC.

PRAIRIE CENTRE OF EXCELLENCE

February 10, 12:00 - 1:00 pm
Katherine Hibbard, MSc, "The Role of Changing Together: A Centre for Immigrant Women in the Well-Being of its Clientele." #103, 10010 - 107A Avenue. RSVP/info: Ms. Aleksandra Rasovic, 492-6600 or pcerii@ualberta.ca

RU LEMIEUX LECTURE

March 13, 4:00 - 5:00 pm
RU Lemieux Lecture on Biotechnology: Dr. Christopher Somerville, Dept of Plant Biology, Stanford University, CA, "The Impact of Genomics on Plant Genetic Engineering." Timms Centre for the Arts.

SIGMA XI, U OF A CHAPTER

March 1, 7:45 pm
Jonathan Schaeffer, Computing Science, "Didn't Samuel solve that game?" Room 2-35 Corbett Hall.

TEACHING SUPPORT & RESOURCE OFFICE, FACULTY OF NURSING

February 4, 12:00 - 1:00 pm
Teaching Matters Series: "International Issues: Ghana." Facilitator TBA. Room 6-107 Clinical Sciences Building. PLEASE NOTE THIS HAS BEEN RESCHEDULED FROM FEBRUARY 10TH TO FEBRUARY 4TH.

UNIVERSITY TEACHING SERVICES

February 7, 4:00 - 6:00 pm
Erhan Erkut, "Visual Display of Quantitative Information." CAB 243.

February 8, 3:30 - 5:00 pm
Marg Iveson, "Designing and Marking Assignments." CAB 281.

February 9, 2:00 - 3:30 pm
Graham Chambers, Mick Price and Olive Yonge, "Cheating, Plagiarism and Misrepresentation of Facts." CAB 281.

February 14, 7:45 - 8:45 am
Connie Varnhagen, "Drop-In Breakfast - Classroom Issues in Using Instructional Technology." CAB 219.

February 15, 3:30 - 5:00 pm
Allen Shostak, "Using the Web as a Primary Method of Instructional Delivery." CAB 243.

UNIVERSITY OF ALBERTA'S OUTREACH PROGRAM

February 8, 3:30 - 5:00 pm
Dr. Michael T. Caley, Executive Director of the Edmonton Science & Technology Hotline, Co-Founder of the Alberta Science Literacy Association, "Surviving and Enjoying School Visits." CAB 219. Info: 492-0978.

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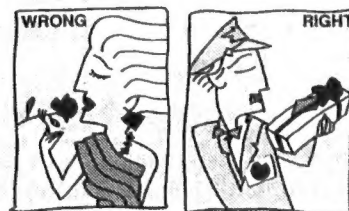
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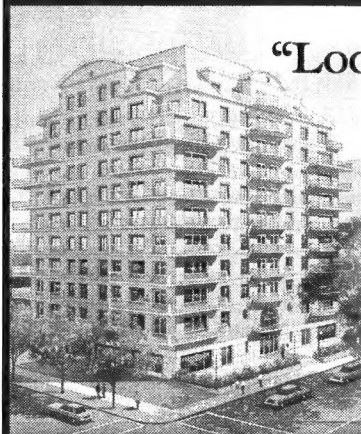
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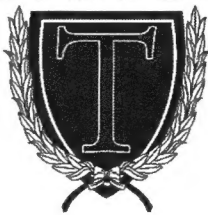
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A challenging administrative and professional officer position exists at the University of Alberta for the manager, pension administration. You will be responsible for developing and implementing internal pension policies; evaluating or recommending plan design changes; and managing the pension administration unit.

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Candidates should have a university degree in a related field, CEBs and/or a professional accounting designation recognized in Canada, and several years of experience in pension administration. Public sector or defined benefit plan experience is a definite asset. Equivalencies may be considered. The successful candidate will demonstrate excellent program management and organizational skills both at the strategic and operational levels along with superior verbal and written communication abilities. Should also demonstrate proven supervisory skills.

We offer a comprehensive salary and benefits package in an environment that recognizes and rewards excellence. The salary range for this position as of July 1, 1999 is \$40,845 to \$61,269 per annum.

Please submit your résumé no later than Feb. 24, 2000 to:

Margot McCune
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2-40 Assiniboia Hall
University of Alberta
Edmonton, Alberta T6G 2E7

RESEARCH ASSOCIATE

DEPARTMENT OF CHEMICAL AND MATERIALS ENGINEERING

In collaboration with Syncrude Canada Ltd. and NSERC, the University of Alberta is establishing an Industrial Research Chair in Advanced Upgrading of Bitumen in the Department of Chemical and Materials Engineering. Over its five-year term, this chair program will conduct innovative research on upgrading processes and strengthen the interaction between university and industry.

The research associate position in the industrial research chair program involves:

1. Supervision of research projects associated with the chair program;
2. Teaching at the graduate and undergraduate levels in the Department of Chemical and Materials Engineering.

The candidate will have an advanced degree in chemical engineering or a related discipline. Experience in processing of hydrocarbons and upgrading of bitumen is preferred.

The salary for this position will range from \$35,000 - \$40,000 per year, depending on experience. This position is a term position for the five-year duration of the chair program.

Applications will be evaluated beginning on March 1, 2000. Applications, including a curriculum vitae and names of three referees, should be submitted to:

Murray R Gray
Dept. of Chemical and Materials Engineering
University of Alberta
Edmonton, Alberta T6G 2G6
Phone: 780-492-7965
Fax: 780-492-2881
murray.gray@ualberta.ca

RESEARCH/DEVELOPMENT POSITIONS

CAMPUS ALBERTA REPOSITORY OF EDUCATION OBJECTS (CAREO)

The University of Alberta and the University of Calgary are collaborating in a Learning Enhancement Envelope funded initiative to establish a repository of educational objects. This project will establish and maintain a database of peer reviewed, tagged, multimedia objects that will be accessible to teaching faculty throughout Alberta. Two enterprising, skilled developers are required (one in Calgary, one in Edmonton) to design, build, populate, market and promote the repository.

These 12-month contracts (with possibility of renewal) will be of interest to innovative developers

with interests and skills in one or more of the following areas:

- educational technology,
- software marketing,
- Web-based application development,
- adult education and institutional change.

Applications for the positions, including a CV, the names of at least two referees and a covering letter outlining the strengths and vision you bring to this innovative project, should be forwarded to:

Terry Anderson, PhD
Professor and Associate Director
Academic Technologies for Learning
Faculty of Extension
University of Alberta
Edmonton AB T6G 2T4
terry.anderson@ualberta.ca

– OR –

Tim Buell, PhD
Coordinator of Learning Enhancement
Learning Commons
525 Biological Sciences
University of Calgary
Calgary AB T2N 1N4
buell@acs.ucalgary.ca

The position will remain open until suitable candidates are found with applications being considered from Feb. 7, 2000.

TRANSFORMATION SPECIALIST/ MOLECULAR BIOLOGIST

A temporary, part-time position is available immediately for a post-doctoral fellow in a plant molecular biology laboratory to carry out genetic transformation of *Brassica napus*. A PhD and experience with *Brassica* transformation and molecular biology is essential for this position. Experience in molecular biology including RNA isolation and analysis, enzymatic and protein assay techniques, and recombinant DNA techniques are also required. The incumbent must be able to independently carry out all stages of *Brassica* transformation, including vector design and construction, Agrobacterium-mediated transformation, tissue culturing, and analysis of transgenic plants. This position is part-time (approximately 35 per cent full-time) and subject to continued availability of trust funds. Monthly salary will be \$800-\$1000 depending on experience.

Send a cover letter and CV by Feb. 20, 2000 to:

Dr. Peter Constabel
Department of Biological Science
CW 405 Biological Sciences Building
University of Alberta

POST-DOCTORAL FELLOWSHIP HEALTH-SERVICES RESEARCH

The Institute of Health Economics is seeking applications for a post-doctoral fellowship. This position is for one year with an option of extension for a second year. The successful applicant will join an on-going and innovative project involving multi-disciplinary primary care teams. The project brings together community providers, e.g., family physician, community pharmacists and home care nurses, to provide team care for high-risk community-dwelling patients.

The successful applicant should hold a PhD in health-services research, pharmacy administration, public health sciences, economics or some other relevant social science. The individual will guide the project and work closely with the other members of the research team including health services/outcomes researchers, pharmacy researchers, a clinical trialist and a health economist. This fellowship offers a great opportunity to work in an interdisciplinary team as well as further develop project management, statistical analysis, and writing skills. The salary range is \$37,000 - \$45,000 CDN per year plus benefits.

The Institute of Health Economics is a not-for-profit research organization representing a partnership of 16 organizations from government, industry, a research foundation and universities, including the University of Alberta. Interested individuals should submit their CV by Feb. 29, 2000 to:

Joseph Gebran
Institute of Health Economics
#710, 10665 Jasper Avenue
Edmonton AB T5J 3S9
<http://www.ihe.ab.ca>

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RIVERBEND, BRANDER GARDENS CONDO IN HEARTHSTONE – three bedrooms, two storey, finished basement. Single garage, \$1,200 including utilities. Furnished. Immediate - April 15, 2000. Janet Jenner-Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

GLENORA/Tweedsmuir Crescent – bright remodelled bungalow with huge open plan kitchen. Formal livingroom and diningroom, \$1,400/month, immediate. Call Janet Jenner-Fraser, 441-6441.

RIVER VALLEY VIEW – spectacular executive condo. One bedroom and den with sunroom, air-conditioned, many extras. Furnished, immediate, \$1150/month. Janet Jenner-Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

MILLCREEK – elegant period two storey, fully furnished. For rent until June 30, 2000. \$1,350. Janet Jenner-Fraser, Gordon W.R. King and Associates, 441-6441.

LEGISLATURE AREA – just bring your suitcase. Large 1 + 2 bedrooms, fully equipped, weekly, monthly. Whitehill Manor, 426-2331.

PARKALLEN – three bedroom house, quiet neighbourhood, garden, garage. Furnished. \$800 plus utilities. 437-5807.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES – knowledgeable, trustworthy, realtor with Edmonton references. Will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (250) 383-7100, Lois Dutton, Duttons & Co. Ltd. #101 – 364 Moss Street, Victoria, B.C. V8V 4N1

"THE BELGRAVIA" – spectacular, 2,060' unit. Southwest view. \$289,900. Ed Lastiwka, Royal LePage, 431-5600.

BELGRAVIA EXCLUSIVE – spacious, fully developed semi-bungalow in prime location near the river valley. Value priced for June 1, 2000 possession. Hugh Moncrieff, Re/Max, 488-4000.

GRANDVIEW – three level split, finished basement, new oak kitchen with Corian counter tops. Renovated bathrooms, security system, heated insulated garage, heated playhouse. Large backyard with fruit trees. 6624 – 124 Street. Phone 435-7970. Open House February 12 and February 13, 2 – 5 p.m.

WINDSOR PARK – elegant, architecturally designed two storey. Built 1988. Many special features. Large lot, opposite park. Asking \$458,000. Offers! Call Liz Crockford or Denise Rout, 438-7000, Re/Max.

WINDSOR PARK – character and charm, 1,580 sq ft, two storey with three bedrooms. Attractively landscaped. Quiet location. \$260,000. Call Liz Crockford or Denise Rout, 438-7000, Re/Max.

MILLCREEK – well-maintained semi-bungalow with newer kitchen, bathroom. Two bedrooms and loft. Basement suite. Close to ravine, University. Call Denise Rout or Liz Crockford, 438-7000, Re/Max.

ALLENDAL GEM – near U of A, two bedroom home extensively upgraded. Comes with all new appliances. \$99,900. Janet Fraser or Gordon King, 441-6441, Gordon W.R. King and Associates.

BELGRAVIA/U OF A AREA – classy Stratford executive condo. Two bedrooms, fireplace, two baths. Immediate possession. \$145,000. Janet Fraser, Gordon W.R. King and Associates, 441-6441.

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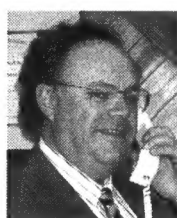
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notices

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CANDIAN FEDERATION OF UNIVERSITY WOMEN (EDMONTON CHAPTER)

The monthly meeting is Feb. 7 at noon, at the Provincial Museum of Alberta, 12845 - 102 Avenue. The guest speaker is David Goa, "Anno Domini: Jesus through the centuries: An exploration of the heart of 2000 years." Luncheon to follow at the museum. All women university graduates welcome to attend. Info: 439-4285.

LOSS AND TRAUMA STUDY

Within the past year, have you been severely affected by a loss, such as the death of a close friend or family member, or a personal trauma such as assault or car accident? If yes, and if you remember any dreams related to your loss or trauma, you may be eligible to participate in a study of loss and trauma being conducted in the Department of Psychology. If interested, please contact Don Kuiken (492-5271; dkuiken@ualberta.ca)

Is 'business ethics' an oxymoron?

Bernard Linsky (Moderator)
Jim Gaa (Guest Resource Scholar)

Saturday, Feb 12, 2000
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Urban Lounge and
Whisky Grill
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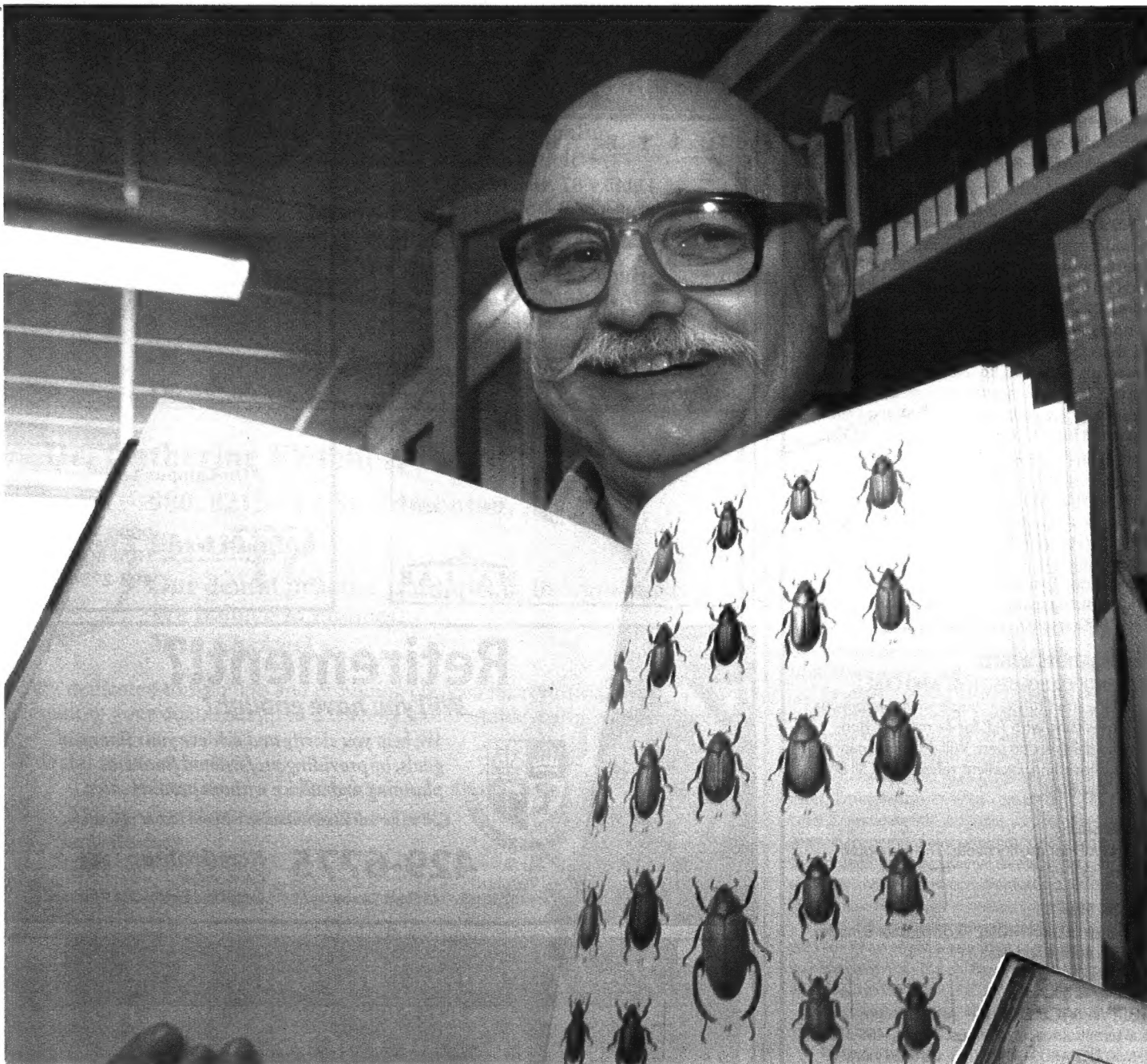
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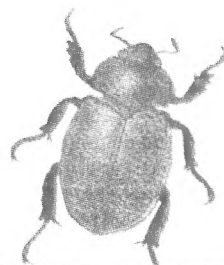
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Ball: in order to catch his beetles, he has to get down on his hands and knees and think like one.



Beetle facts:

- There are more than 400,000 described beetles in the order of *coleoptera* (beetles) and estimates of up to 2.4 million in existence.
- *Coleoptera* is Greek in origin from the words *Coleos* (sheath) and *Pteron* (wing).
- There are 30,000 described in the field of ground beetles and an estimated 40,000 in existence.
- There are 6,748 Canadian beetles known, and it is estimated there are more than 9,000 species.

»» quick »» facts

Prof. Ball's beetles, bugs and books

By Roger Armstrong

It all started in '74 when Dr. George Ball was appointed chair of the Department of Entomology. He decided he didn't want any extra money for his new position.

"It was my turn to serve my colleagues, and I just didn't feel I wanted recompense of that type," he says. But instead of flat-out refusing the raise, Ball put his money where his love was—and still is. Ball decided to contribute his chair's stipend to the library to purchase books and journals.

Fast forward to the year 2000: the interest from the money Ball contributed over 10 years as department chair now allows the library the luxury of purchasing approximately \$2,500 worth of entomological materials each year. But his giving hasn't stopped. Ball has been involved in choosing the books needed to fill in the University of Alberta's collection, considered one of the finest in North America.

Ball's bug life goes way back. Born in Detroit, Mich., he was introduced to entomology at an early

age by a Boy Scout leader who had an insect collection. The beetle was the bug of choice for Ball. It's still his favourite today.

"I love the aesthetic quality of beetles. There is unity of form and diversity within that form," says Ball. There is also diversity in trying to catch the scurrying beetles. It usually means Ball has to *think* like a beetle.

He uses a variety of techniques to find the little creatures: crawling around on his hands and knees, using a net to capture the ones on foliage and using lights to hunt the beetles that only come out at night.

But of his potentially dangerous work in the field, particularly the

deep, dark jungles of the tropics, Ball says, "I've never felt a moment's concern in the South American forests at night." There are, however, some dangers looming

all around the beetle's trail. "Ants—big and nasty ants."

Ball is an authority on the ground beetles (*carabidae*) and has published an impressive body of work, says Dr. Merrill Distad, associate director of libraries.

"George typifies what I consider to be the best kind of academic. He lives and breathes this stuff; he is a warm, engaging and charming human being. And he inspires a lot of people."

—Dr. Merrill Distad, associate director of libraries

Like most entomologists, Ball has a love for books as well as bugs, and he is part of a long entomological tradition.

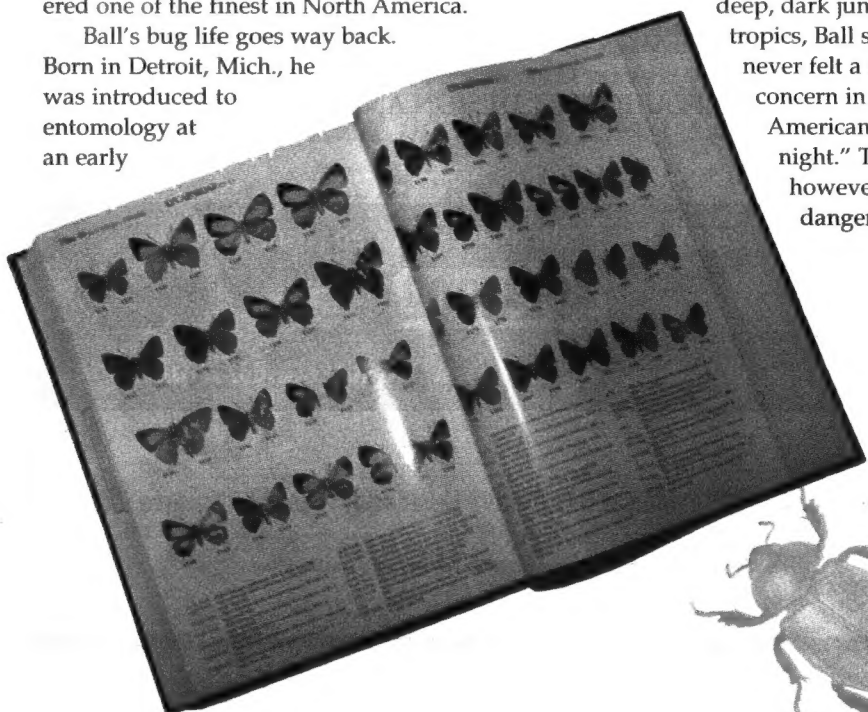
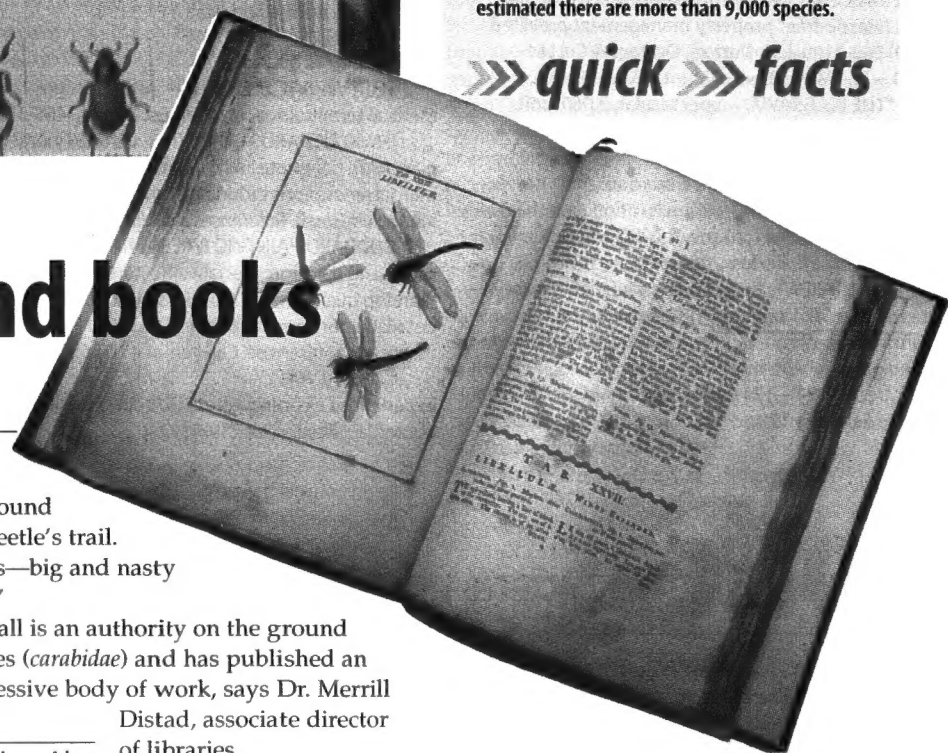
"The entomologists on this campus historically have been amazing library supporters... every last one of them has strong connections to the library," says Randy Reichardt, reference librarian.

But although Ball says he is taking a bit more time for himself these days, he still spends plenty of time in his lab. While he has spent more than 20 summers in Mexico, he says his time in the field is now limited because he has numerous specimens on which to work in his laboratory in Edmonton.

For now, Ball is looking forward to leaving the snowy sidewalks of campus for the sunny shores of the Atlantic. He is planning to take a cruise this spring off the western coast of Africa, and he says at least part of his time will be spent checking out (what else?) the local beetles.

It's clear Ball takes his bug life along with him wherever he goes. After all, he loves his work and says he won't be giving it up any time soon.

"Not as long as I am able to see and walk. I'll keep at it." ■



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